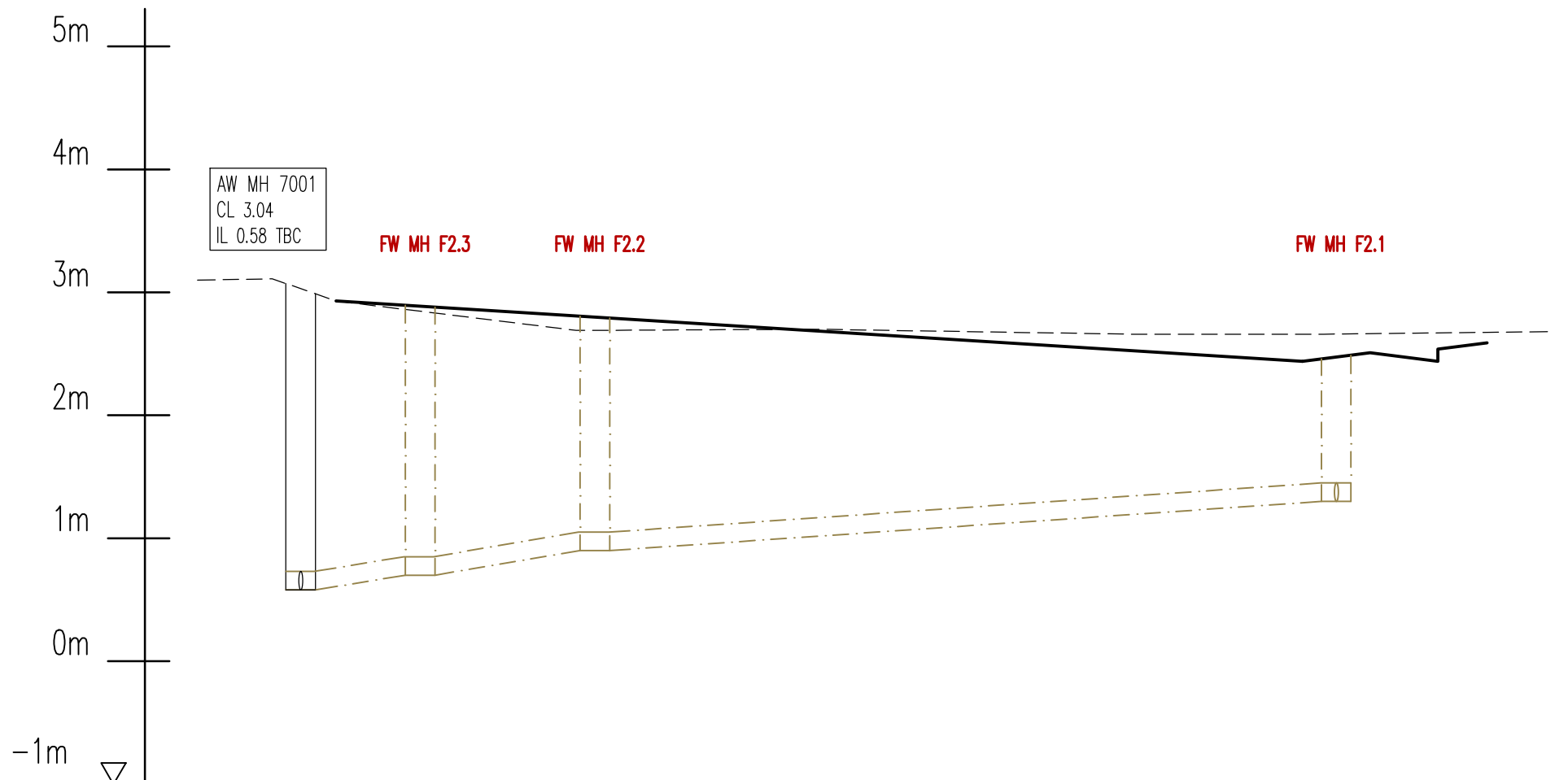
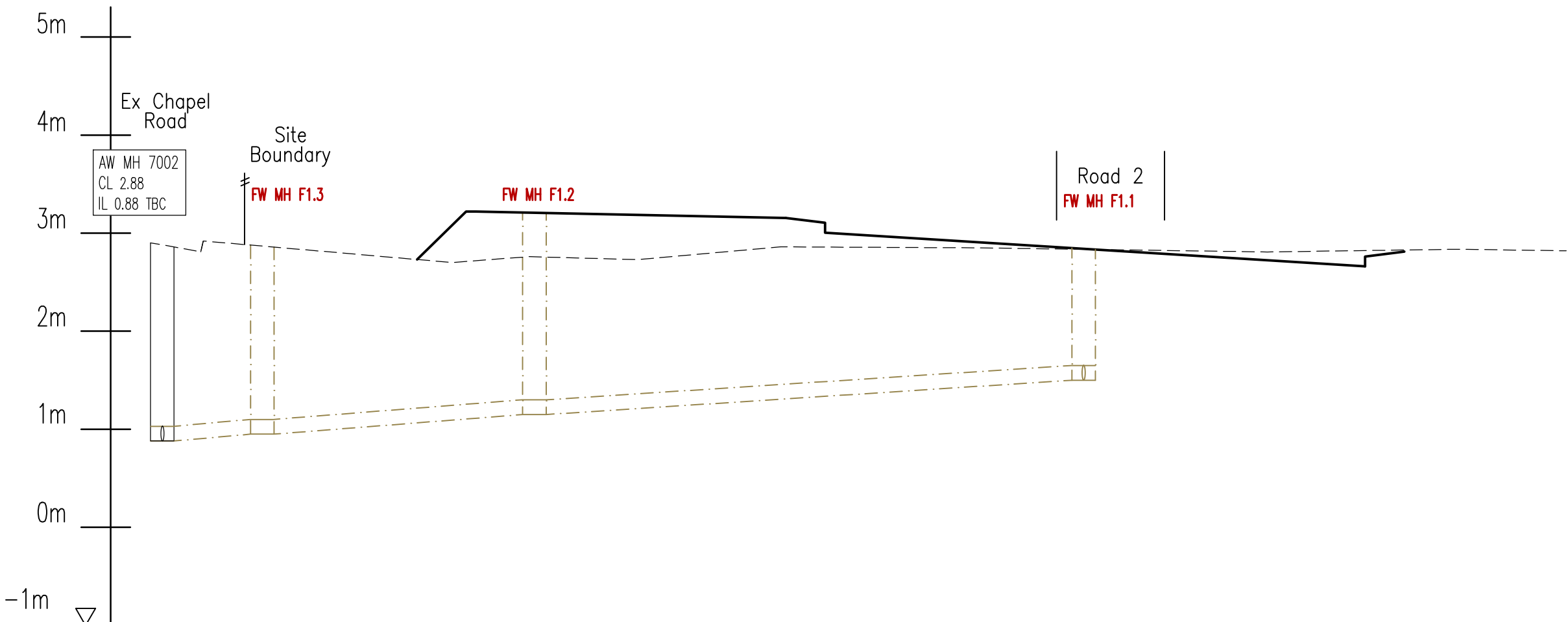


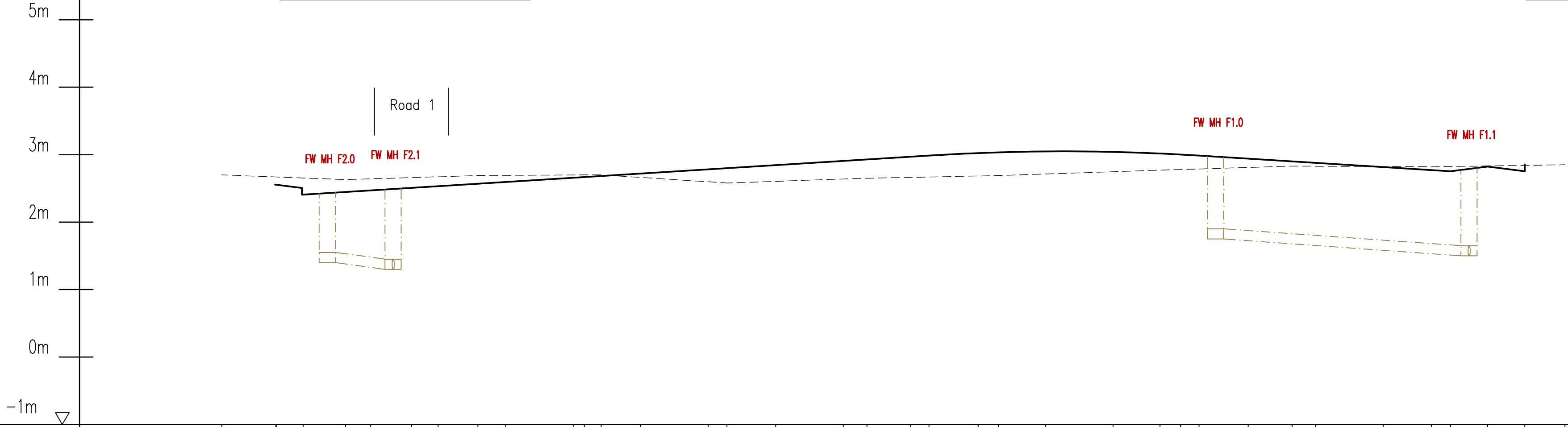


Chainage	-5.63	-2.59	0.00	5.00	9.76	10.00	15.00	19.44	20.00	25.00	30.00	32.26	35.00	39.28	40.14	42.03	44.78	46.78	49.24
Existing	3.10	3.11	2.93		2.69			2.70				2.66			2.66			2.68	
Proposed			2.930	2.868	2.805	2.743		2.680	2.618	2.555		2.493	2.439		2.508	2.439	2.539	2.589	
Longitudinal Alignment	Ex Chapel Road	L= 39.28m G= -1:80													Road 2				
Horizontal Alignment		L= 39.28m																	
Chainage		-1.44	3.42		10.52									40.65					
Cover level																			
Invert level																			
Cover level	UPVC to WIS 4-35-01 Type S Granular Bed & Surround	3.04	2.95	UPVC to WIS 4-35-01 Type S Granular Bed & Surround	2.80	UPVC to WIS 4-35-01 Type S Granular Bed & Surround								2.45					
Invert level	5.7m 150ø @ 1:80	0.58	0.70	12.8m 150ø @ 1:80	0.90	30.1m 150ø @ 1:80								1.30					



Chainage		-31.83	-31.70	-29.60		-19.02	-17.80	-15.10		-9.57		-2.28	-2.00	0.00	5.00	7.78	10.00		14.55	15.00	18.35	20.00		25.00	26.74	27.53	29.53	37.79
Existing		2.81	2.92			2.70		2.76		2.73		2.86				2.85					2.82				2.82			2.82
Proposed						3.22							3.155	3.105	3.005	2.943		2.880		2.823	2.818	2.755		2.693	2.661	2.761	2.811	
Longitudinal Alignment																			L = 27.53m G = -1:80									
Horizontal Alignment																			L = 27.53m									
Chainage	-33.79			-28.69				-14.82									13.18											
Cover level																												
Invert level																												
Cover level	2.88	UPVC to WIS 4-35-01 Type S Granular Bed & Surround	2.95	UPVC to WIS 4-35-01 Type S Granular Bed & Surround	3.20		UPVC to WIS 4-35-01 Type S Granular Bed & Surround	2.80																				
Invert level	0.88	5.1m 150ø @ 1:80	0.95	13.9m 150ø @ 1:80	1.15		28.0m 150ø @ 1:80	1.50																				

LONG SECTION OF ROAD ONE



Chainage		-6.03	-2.00	0.00	3.14	5.00	8.03	10.00	12.94	15.00		20.00	20.83	22.08	25.00		30.00	31.39		35.00		40.00	41.76		45.00	46.36		50.00	51.50		55.00		60.00		63.47	65.00	66.36		70.00		73.26	75.00		80.00		83.58		84.99	87.74		90.49		93.47
Existing		2.70			2.63				2.69				2.70	2.70				2.58				2.65					2.77							2.83						2.82							2.85						
Proposed			2.558	2.508	2.408	2.470	2.508	2.533		2.595		2.658		2.720		2.783		2.845		2.908		2.970	2.987		3.024		3.048		3.041		3.003	2.987		2.942		2.879		2.817				2.754	2.823		2.754	2.854							
Longitudinal Alignment						L=46.36m G=1:80										Hog Curve L=20' R=800m					L=18.63m G=-1:80					Road 3																											
Horizontal Alignment		L=90.58m																																																			
Chainage			1.78		6.66																													67.59											86.36								
Cover level																																																					
Invert level																																																					
Cover level		UPVC to WIS 4-35-01 Type S Granular Bed & Surround			2.40		2.45																										2.95	UPVC to WIS 4-35-01 Type S Granular Bed & Surround			2.80																
Invert level		4.9m 150Ø @ 1:80			1.40		1.30																										1.75	15.8m 150Ø @ 1:80			1.50																

LONG SECTION OF ROAD TWO

LONG SECTION OF ROAD THREE

- N O T E S**
- General Notes
- All works and material to be in accordance with "Sewers for Adoption" 6th Edition, the relevant British/European and Yorkshire Water's Standards/Requirements/Addendum and be Kitemarked.
 - Manhole covers shall/must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
 - Filled ground must be filled and consolidated satisfactorily before any sewer works are carried out.
 - Cover slabs must carry the BS Kitemark. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 600x600mm for the Yorkshire Water specified cover size. Please refer to the Concrete Pipe Systems Association (CPSA), "Technical Bulletin" issued autumn 2004 for Kitemarked cover slab opening sizes.
 - Sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
 - Sewers must have 5 metres clearance from trees and hedges, (please also refer to Figure 2.3 on page 33 in "Sewers for Adoption" 6th Edition for restrictions on tree planting adjacent to Sewers).
 - Sewers to be laid in Class "S" bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in none vehicular access areas) then a concrete slab should be provided above the granular bed and surround.
 - Adaptable sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer.
 - Sewers must have 5 metres clearance from trees and hedges, (please also refer to Figure 2.3 on page 33 in "Sewers for Adoption" 6th Edition for restrictions on tree planting adjacent to Sewers).
 - The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bends.
 - Type "C" brick manhole and 1050mm dia manhole rings. Instead it is preferred that you use a type "B" manhole with 1200mm dia or 1500mm dia. rings, with the opening sited over the channel where depth of cover to pipe soffit is 1-1.5m.
 - If plastic pipes are to be used then the following should apply:-
 - All sewers to be BS Kitemark (certified to WIS 4-35-01 and to BS/EN13476).
 - Bedding and backfill material to conform to the requirements of Water industry Specification 4-08-02 (Table A2)
 - Where plastic pipes are proposed for sewers, structural calculations for the plastic pipes and a site investigation report to prove that the ground condition is suitable for the plastic pipes are to be produced.
 - Where plastic pipes are installed into the ground prior to getting full technical approval, the developer must provide a CCTV survey of the prospectively adoptable sewers and a deformation test (Light-Line test) of the plastic pipes.
 - Demarcation chambers to be a min. 450mmø chamber for 100mmø foul & 150mmø surface water pipes up to 1.2m deep. For depths greater than 1.2m, restricted access opening to 350mm is required for safety reasons.
 - Maximum depth of demarcation chamber to be 2m, where depth exceeds 2m, manhole to be constructed as type B manhole.
 - Anglian Water is not obliged to accept filter drain/land drainage runoff into the public sewer network or adoptable drainage system (directly or in-directly). An alternative method of disposal of the land drainage runoff will therefore be required and you will have to liaise with the Land Drainage Authority/Land Drainage Section with regard to the disposal of the filter drain/land drainage runoff is required.
 - Sulphate resisting cement (C20-D22) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
 - Strength of vitrified clay pipes (if used) to be 40KN/m for 100ø, 40KN/m for 150ø, 45KN/m for 225ø and 72KN/m for 300ø. All concrete pipes to be Class 120 concrete to EN 1916/BS 5911-1:2002.
 - All levels of existing drainage to be confirmed prior to work commencing on site.
 - The contractor must allow for any fee's required for road and sewer opening permits, sewer connections and make the appropriate applications.

SUBJECT TO THE
APPROVAL OF
ALL RELEVANT
AUTHORITIES

/	RF	22.2.19	Issued for Approval	PSC	SAB
Rev	By	Date	Revision	Chk	Apvd

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TITLE

LONGITUDINAL SECTIONS

PROJECT

MOULTON CHAPEL ROAD
COWBIT

CLIENT

MINSTER PROPERTY
GROUP LTD

DRAWING STATUS

PRELIMINARY

Scale	Date	Drawn	RF
1:250H, 1:50V	FEB 19	Chk.	SAB

Org. No.	1834/02/06	Rev	/
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